



Trans-Lake Washington Project

Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 1 - Expanded Bridges
 - Neighborhood Connectivity
 - Limited results
 - Each of the options would provide areas for additional landscaping and non-motorized connections
 - Landscaping could be tied to Three Points School, Fairweather Park, Hunts Point Park, or residential areas
 - No capacity for civic facilities
 - Aesthetics
 - Each option provide for enhanced visual connections and substantial plantings
 - Utilize noise barriers which would pose minor impacts



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 1 - Expanded Bridges continued
 - Noise
 - All concepts would entail utilizing noise barriers
 - May screen undesirable highway views
 - Visual impacts could be reduced through design and landscaping
 - Air Quality
 - All concepts would have no impact on the quantity of gaseous air emissions released from vehicle exhaust



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 1 - Expanded Bridges continued
 - Cost
 - Evergreen Point Road
 - Concept 1 estimated at \$10 million
 - 84th Avenue NE Area
 - Concept 1a estimated at \$15 million
 - Concept 1b estimated at \$35 million
 - 92nd Avenue NE Area
 - Concept 1a estimated at \$20 million
 - Concept 1b estimated at \$40 million



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 2 - Lids in Topographic Areas that Support Lidding
 - Neighborhood Connectivity
 - Evergreen Point Road Area
 - Connect Fairweather Park with Three Points School
 - Include substantial amounts of landscaping and open space
 - Without substantial grading, the lids would have a “box effect”
 - Minor potential for civic facilities
 - Ventilation shaft could be physically intrusive
 - 84th Avenue NE Area
 - Moderate amount of community connectivity
 - Concept 2b would connect areas south of SR 520 with Hunts Park Point



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 2 - Lids in Topographic Areas that Support Lidding continued
 - Neighborhood Connectivity
 - 84th Avenue NE Area continued
 - Ventilation shaft could be physically intrusive
 - 92nd Avenue NE Area
 - Help reconnect the town of Yarrow Point
 - Enhance bike/pedestrian environments
 - Increased landscaping and potential for smaller civic buildings
 - Ventilation shaft could be physically intrusive



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 2 - Lids in Topographic Areas that Support Lidding continued
 - Aesthetics
 - Evergreen Point Rd., 84th Avenue NE, and 92nd Ave. NE Areas
 - Concept 2a
 - » Each of these areas would benefit from partially blocked views of SR 520
 - » Tie together the visual character of the neighborhoods
 - » Provide attractive open space with plantings, community gathering spaces, and public amenities
 - Concept 2b
 - » Add open space areas
 - » Extension of open space would proportionately increase the extent of impacts
 - » Walls from lids would cast shadows and block views



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 2 - Lids in Topographic Areas that Support Lidding continued
 - Noise
 - All concepts would be effective in reducing noise levels
 - Receivers near the endpoints of the lids may have higher noise levels
 - Noise walls would be required
 - Noise related to ventilation fans could be mitigated
 - Air Quality
 - Similar to Concept 2 in the Eastlake/Portage Bay/Roanoke/North Capitol Hill area



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 2 - Lids in Topographic Areas that Support Lidding continued
 - Cost
 - Evergreen Point Road
 - Concept 2a estimated at \$190 million
 - Concept 2b estimated at \$350 million
 - 84th Avenue NE Area
 - Concept 2a estimated at \$370 million
 - Concept 2b estimated at \$510 million
 - 92nd Avenue NE Area
 - Concept 2a estimated at \$160 million
 - Concept 2b estimated at \$320 million



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 3 - Community Suggestions
 - Neighborhood Connectivity
 - Continuous lid from Evergreen Point to east of 92nd Avenue NE offers greatest amount of connectivity
 - Size would allow for a variety of design concepts
 - Lid would protrude above ground, restricting areas where amenities could be implemented
 - Effectiveness would be hindered by two long ventilation shafts
 - Aesthetics
 - Increase area dramatically adds open space, providing opportunities for recreation
 - Provide uninterrupted non-motorized transportation routes
 - Screen areas of SR 520



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 3 - Community Suggestions continued
 - Aesthetics continued
 - Extensive lids would tower over their surroundings
 - Noise
 - Noise impacts are unlikely due to the large structure
 - Noise walls would be required for mitigation from access ramps
 - Noise related to ventilation fans could be mitigated
 - Air Quality
 - Similar to Concept 3 in the Eastlake/Portage Bay/Roanoke/North Capitol Hill area



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Lake Washington to West of I-405 Neighborhoods Evaluation Results

- Concept 3 - Community Suggestions continued
 - Cost
 - Estimated at \$2.2 billion



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Evaluation Criteria

- Neighborhood Connectivity
 - Effectiveness of the community enhancement concepts in strengthening neighborhood connectivity
- Aesthetics
 - Maintain or enhance the visual environment
- Noise
 - Noise reduction benefits, supplemental noise mitigation, & overall noise reduction
- Air Quality
 - Maintain or enhance air quality
- Costs
 - Cost opinions for the community enhancement concepts



Noise Impact Comparison Summary

	1. Noise Impacts w/o Mitigation	2. Noise Impacts w/mitigation & w/o lids	3. Noise Impacts w/Lids & w/o Supplemental Mitigation	4. Noise Impacts w/Lids & Supplemental Mitigation
Eastlake/Portage Bay/Roanoke/North Capitol Hill Neighborhoods				
Concent 1			○	●
Concent 2			○	●
Concent 3			○	●
Montlake Neighborhoods				
Concent 1		●	○	●
Concent 2			○	●
Concent 3			○	●
Lake Washington to West of I-405				
Concent 1a		●		
Concent 1b			○	●
Concent 2a			○	●
Concent 2b			●	●
Concent 3			○	●
East of I-405 to SR 202				
Concent 1		●	N/A	N/A
Concent 2			N/A	N/A
Concent 3			○	●



Cost Summary Table

Eastlake/Portage Bay/Roanoke/North Capitol Hill Neighborhoods	
Concept 1 - Expanded Bridges	\$60 million
Concept 2 - Lids In Topographic Areas that Support Lidding	\$360 million
Concept 3 - Community Suggestions	\$500 million
Montlake Neighborhoods	
Concept 1 - Expanded Bridges	\$25 million
Concept 2 - Lids In Topographic Areas that Support Lidding	\$110 million
Concept 3 - Community Suggestions	\$340 million
Lake Washington to West of I-405	
Concept 1 - Expanded Bridges	
Evergreen Point Road Area	\$10 million
84 th Avenue NE Area	
Concept 1a	\$15 million and
Concept 1b	\$35 million
92 nd Avenue NE Area	
Concept 1a	\$20 million
Concept 1b	\$40 million
Concept 2 - Lids In Topographic Areas that Support Lidding	
Evergreen Point Road Area	
Concept 2a	\$190 million
Concept 2b	\$350 million
84 th Avenue NE Area	
Concept 2a	\$370 million and
Concept 2b	\$510 million
92 nd Avenue NE Area	
Concept 2a	\$160 million
Concept 2b	\$320 million
Concept 3 - Community Suggestions	
\$2.2 billion	
East of I-405 to SR 202	
Concept 1 - Expanded Bridges	N/A
Concept 2 - Lids In Topographic Areas that Support Lidding	N/A
Concept 3 - Community Suggestions	
40 th Street	\$110 million
31 st Street	\$60 million